AWARD/CONTRACT

1. This Contract Is A Rated Order Under DPAS (15 CFR 700)	▶	Rating DOA4	Page 1 Of 30

2. Contract (Proc. Inst. Ident) No.	3. Effective Date	4. Requisition/Purchase Request/Project No.
W56HZV-04-C-0314	2004JUL01	SEE SCHEDULE

5. Issued By   Code   W56HZV

```
TACOM  WARREN
AMSTA-AQ-ABGB
ROBERT BEARDSLEE (586)574-8071
WARREN, MICHIGAN 48397-5000

HTTP://CONTRACTING.TACOM.ARMY.MIL
```

e-mail address: BEARDSLR@TACOM.ARMY.MIL

6. Administered By (If Other Than Item 5)   Code N62880

```
OFFICE OF NAVAL RESEARCH
CHICAGO REGIONAL OFFICE
230 SOUTH DEARBORN STREET, ROOM 380
CHICAGO, IL  60605-1595
```

SCD C   **PAS** NONE   **ADP PT** N62880

7. Name And Address Of Contractor (No. Street, City, County, State, And Zip Code)

```
UNIVERSITY OF LOUISVILLE RESEARCH FOUNDATION INC.
CONTROLLER'S OFFICE - SERVICE COMPLEX
291 EAST WARNOCK STREET
ROOM 223
LOUISVILLE KY, KY. 40292-0001

TYPE BUSINESS: Other Educational
```

Code 48825   **Facility Code**

8. Delivery
☐ FOB Origin   [X] Other (See Below) SEE SCHEDULE

9. Discount For Prompt Payment

10. Submit Invoices (4 Copies Unless Otherwise Specified) To The Address Shown In: ▶   **Item** 12

11. Ship To/Mark For   Code

SEE SCHEDULE

12. Payment Will Be Made By   Code N68892

```
DFAS-CH CODE FP
P.O. BOX 118054
CHARLESTON  SC  29423-8054
```

13. Authority For Using Other Than Full And Open Competition:
☐ 10 U.S.C. 2304(c)( )   ☐ 41 U.S.C. 253(c)( )

14. Accounting And Appropriation Data

ACRN: AA 21   42040000046N6N7EP633005255Y   S20113 W56HZV

15A. Item No.	15B. Schedule Of Supplies/Services	15C. Quantity	15D. Unit	15E. Unit Price	15F. Amount
SEE SCHEDULE	CONTRACT TYPE: Cost Contract	KIND OF CONTRACT: Research and Development Contracts			

15G. Total Amount Of Contract ▶ $1,499,934.00

16. Table Of Contents

(X)	Section	Description	Page(s)	(X)	Section	Description	Page(s)
		Part I - The Schedule				**Part II - Contract Clauses**	
X	A	Solicitation/Contract Form	1	X	I	Contract Clauses	19
X	B	Supplies or Services and Prices/Costs	3			**Part III - List Of Documents, Exhibits, And Other Attachments**	
X	C	Description/Specs./Work Statement	8	X	J	List of Attachments	30
X	D	Packaging and Marking	12			**Part IV - Representations And Instructions**	
X	E	Inspection and Acceptance	13		K	Representations, Certifications, and	
X	F	Deliveries or Performance	14			Other Statements of Offerors	
X	G	Contract Administration Data	15		L	Instrs., Conds., and Notices to Offerors	
X	H	Special Contract Requirements	17		M	Evaluation Factors for Award	

Contracting Officer Will Complete Item 17 Or 18 As Applicable

17. [X] **Contractor's Negotiated Agreement** (Contractor is required to sign this document and return 2 signed copies to issuing office.) Contractor agrees to furnish and deliver all items or perform all the services set forth or otherwise identified above and on any continuation sheets for the consideration stated herein. The rights and obligations of the parties to this contract shall be subject to and governed by the following documents: (a) this award/contract, (b) the solicitation, if any, and (c) such provisions, representations, certifications, and specifications, as are attached or incorporated by reference herein. (Attachments are listed herein.)

18. ☐ **Award** (Contractor is not required to sign this document.) Your offer on Solicitation Number _____ including the additions or changes made by you which additions or changes are set forth in full above, is hereby accepted as to the items listed above and on any continuation sheets. This award consummates the contract which consists of the following documents: (a) the Government's solicitation and your offer, and (b) this award/contract. No further contractual document is necessary.

19A. Name And Title Of Signer (Type Or Print)	20A. Name Of Contracting Officer
	WYMAN E. YOUNG II
	YOUNGE@TACOM.ARMY.MIL (586)574-8093

19B. Name of Contractor	19c. Date Signed	20B. United States Of America	20C. Date Signed
By _____ (Signature of person authorized to sign)		**By** /SIGNED/ (Signature of Contracting Officer)	2004JUL01

Name of Offeror or Contractor: UNIVERSITY OF LOUISVILLE RESEARCH FOUNDATION INC.

SECTION A - SUPPLEMENTAL INFORMATION

	Regulatory Cite	Title	Date
A-1	52.204-4016 (TACOM)	TACOM-WARREN ELECTRONIC CONTRACTING	JUL/2003

(a) TACOM is now operating in an electronic contracting environment. All TACOM solicitations and awards are now distributed on the TACOM Warren Business Opportunities web page (http://contracting.tacom.army.mil/opportunity.htm) and are no longer available in hard copy. The TDPs and other documents, when available electronically, will be an attachment or linked to the solicitation package on the web. Please see submission guidelines at http://contracting.tacom.army.mil/userguide.htm and http://contracting.tacom.army.mil/ebidnotice.htm for more information. Any requirements included in the solicitation take precedence over guidance found on the TACOM contracting web page.

(b) You may need to use special software to view documents that we post on the home page. This viewing software is freeware, available for download at no cost from commercial web sites like Microsoft and Adobe. In cases where such software is required, we provide a link from our page to the commercial site where the software is available. Once you arrive at the software developer's site, follow their instructions to download the free viewer. You then can return to the TACOM home page.

(c) You are required to submit your offer, bid, or quote electronically. See the provision entitled "Electronic Offers (or 'Quotes' or 'Bids') Required in Response to This Solicitation (or 'Request for Quotations')" for more specific information.

(d) Any award issued as a result of this solicitation will be distributed electronically. Awards posted on the TACOM Warren Business Opportunities web page represent complete OFFICIAL copies of contract awards and will include the awarded unit price. This is the notice required by Executive Order 12600 (June 23, 1987)of our intention to release unit prices in response to any request under the Freedom of Information Act (FOIA), 5 USC 552. Unit price is defined as the contract price per unit or item purchased as it appears in Section B of the contract and is NOT referring to nor does it include Cost or Pricing data/information. If you object to such release, and you intend on submitting an offer, notify the PCO in writing prior to the closing date identified in this solicitation and include the rationale for your objection consistent with the provisions of FOIA.   A release determination will be made based on rationale given.

(e) If you have questions or need help in using the Acquisition Center Home Page, call our Electronic Contracting Help Desk at (586) 574-7059, or send an email message to: acqcenweb@tacom.army.mil

(f) If you have questions about the content of any specific item posted on our home page, please call the buyer or point of contact listed for the item. Additional help is available to small businesses from Government-funded Electronic Commerce Regional Centers (ECRCs) to implement EDI. Information on ECRC is available at http://www.ecrc.ctc.com

[End of Clause]

A-2	52.204-4232 (TACOM)	PUBLIC ACTIVITY INVOLVEMENT	DEC/2002

Subcontract opportunities under this solicitation and any resulting contracts are open to competition between Department of Defense activities and private firms. In addition, Army Industrial Facilities are available to sell manufactured articles or to perform work at such Facilities on behalf of Offerors, in certain circumstances and as permitted by law. Rock Island Arsenal, Watervliet Arsenal, Anniston Army Depot, Sierra Army Depot, and Red River Army Depot have expressed interest in securing subcontracting opportunities under this RFP. For information related to the capabilities of these facilities, and Points of Contact, see www.gsie.army.mil

[End of Notice]

Name of Offeror or Contractor: UNIVERSITY OF LOUISVILLE RESEARCH FOUNDATION INC.

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
	SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS				
0001	UNIVERSITY OF LOUISVILLE	1	LO		$_____1,499,934.00
	NOUN: CMTS/SGSA SOFTWARE SECURITY CLASS: Unclassified				
	Contractor shall furnish all the supplies and services to accomplish the task specified in Section C "Scope of Work."				
	Estimated Cost: $1,499,934				
	(End of narrative B001)				
	Inspection and Acceptance INSPECTION: Destination ACCEPTANCE: Destination				
	Deliveries or Performance DLVR SCH PERF COMPL REL CD QUANTITY DATE 001 1 16-FEB-2007				
	$ 1,499,934.00				
000101	UNIVERSITY OF LOUISVILLE				
	NOUN: IMPACT PRON: R342C299R3 PRON AMD: 01 ACRN: AA AMS CD: 63300553D11 (AMOUNT: $ 500,000.00)				
0002	DATA ITEM				
	SECURITY CLASS: Unclassified				
A002	SCIENTIFIC & TECHNICAL REPORTS	4	EA	$_____ ** NSP **	$_____ ** NSP **
	NOUN: SEMI-ANNUAL REPORTS				

Name of Offeror or Contractor: UNIVERSITY OF LOUISVILLE RESEARCH FOUNDATION INC.

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
	SECURITY CLASS: Unclassified				
	Packaging and Marking				
	Inspection and Acceptance INSPECTION: Destination ACCEPTANCE: Destination				
	Deliveries or Performance DOC SUPPL REL CD MILSTRIP ADDR SIG CD MARK FOR TP CD 001 3 DEL REL CD QUANTITY DEL DATE 001 4 SEE EXHIBIT A				
	FOB POINT: Destination				
	SHIP TO: PARCEL POST ADDRESS (Y00003) SEE NARRATIVE ON DD 1423				
A003	SCIENTIFIC & TECHNICAL REPORT	1	EA	$_____ ** NSP **	$_____ ** NSP **
	NOUN: FINAL REPORT SECURITY CLASS: Unclassified				
	Packaging and Marking				
	Inspection and Acceptance INSPECTION: Destination ACCEPTANCE: Destination				
	Deliveries or Performance DOC SUPPL REL CD MILSTRIP ADDR SIG CD MARK FOR TP CD 001 3 DEL REL CD QUANTITY DEL DATE 001 1 SEE EXHIBIT A				
	FOB POINT: Destination				
	SHIP TO: PARCEL POST ADDRESS (Y00003) SEE NARRATIVE ON DD 1423				

Name of Offeror or Contractor: UNIVERSITY OF LOUISVILLE RESEARCH FOUNDATION INC.

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
A004	COMPUTER SOFTWARE PRODUCT END ITEMS	1	LO	$_____ ** NSP **	$_____ ** NSP **
	NOUN: CMTS / SGSA SOFTWARE SECURITY CLASS: Unclassified				
	Packaging and Marking				
	Inspection and Acceptance INSPECTION: Destination ACCEPTANCE: Destination				
	Deliveries or Performance DOC SUPPL REL CD MILSTRIP ADDR SIG CD MARK FOR TP CD 001 3 DEL REL CD QUANTITY DEL DATE 001 1 SEE EXHIBIT A				
	FOB POINT: Destination				
	SHIP TO: PARCEL POST ADDRESS (Y00003) SEE NARRATIVE ON DD 1423				
A005	PRESENTATION MATERIAL	1	LO	$_____ ** NSP **	$_____ ** NSP **
	NOUN: CMTS / SGSA TRAINING SECURITY CLASS: Unclassified				
	Packaging and Marking				
	Inspection and Acceptance INSPECTION: Destination ACCEPTANCE: Destination				
	Deliveries or Performance DOC SUPPL REL CD MILSTRIP ADDR SIG CD MARK FOR TP CD 001 3 DEL REL CD QUANTITY DEL DATE 001 1 SEE EXHIBIT A				
	FOB POINT: Destination				

Name of Offeror or Contractor: UNIVERSITY OF LOUISVILLE RESEARCH FOUNDATION INC.

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
	SHIP TO: PARCEL POST ADDRESS				
	(Y00003) SEE NARRATIVE ON DD 1423				

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 7 of 30
	PIIN/SIIN W56HZV-04-C-0314 MOD/AMD	

Name of Offeror or Contractor: UNIVERSITY OF LOUISVILLE RESEARCH FOUNDATION INC.

B.1 Estimated Cost and Payment

B.1.1 The estimated cost for performance of the work required under this contract is as stated in Section B Schedule.

B.1.2 The Contractor will be paid for the cost stated in Section B under CLIN 0001 for the performance of work under the Contract the reimbursement of cost shall constitute full and complete consideration for the Contractor's service in connection with the work required and performed under this Contract.

B.1.3 Allowable cost shall be determined, and payment shall be provided, in accordance with the Contract Clause entitled, "ALLOWABLE COST AND PAYMENT."

B.2 Payment

The Contractor may submit public vouchers on a monthly basis for payment under this Contract. The costs will be payable at the time of reimbursement at the same rate subject to any withholding pursuant to provisions of this Contract.

B.3 Funding

B.3.1 The Government shall provide funds under this Contract covering the estimated cost, on an incremental basis as provided for in the following funding schedule and pursuant to the Contract Clause entitled, "LIMITATION OF FUNDS." It is estimated that the incremental amounts are sufficient for the performance of work in each cited period. The Government may, at its discretion, allot such funds on an incremental basis within each fiscal year. The Contractor shall plan and execute the work required by this Contract to expend and/or commit funds compatible with the funding schedule below. Whenever the Contractor has reason to believe the funds allotted to this contract for any fiscal year are either insufficient or excessive for performing the work required in that fiscal year, the Contractor shall notify the Government.

B.3.2 Incremental Funding Schedule

Performance Period	Amount
Award through December 2004:	$ 500,000
January 2005 through Contract Completion:	$ 999,934
Total:	$1,499,934

B.4 Funds Allotted. The amount of funds currently allotted to this Contract are $500,000.

B.4.1 For the purpose of the Contract clause, "LIMITATION OF FUNDS," the total amount allotted by the Government to the Contract shall be the amount of funds allotted in paragraph B.4 above.

B.4.2 In performing this Contract, the Contractor is not obligated to incur costs, in excess of the amount of funds allotted to the Contract, as shown in this clause, nor is the Government obligated to reimburse the Contractor for cost in excess of the amount of funds allotted to the Contract by the Government.

*** END OF NARRATIVE B 001 ***

Name of Offeror or Contractor: UNIVERSITY OF LOUISVILLE RESEARCH FOUNDATION INC.

SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

C.1 Background

C.1.1 The Army is interested in the development of software tools for preparing and applying finite element concept models that represent the fundamental architecture of both commercially-based and purpose-designed wheeled tactical ground vehicles. These software tools and associated concept models will support the rapid evaluation of the hull/frame and cab/crew compartment structures associated with such vehicles. Here "hull/frame" is defined as the vehicles' load-bearing components that integrates primary vehicle subsystems and allows the vehicle structure to withstand the operational loading generated during mission execution. "Cab/crew compartment" is defined as the enclosure housing the vehicle driver and mission support personnel.

C.1.2 Assessment of static/dynamic performance parameters and structural integrity of contractor vehicle design proposals is the primary intended use of the tools developed under this project. The Army Source Selection and Evaluation process, during the systems acquisition phase of the military vehicle lifecycle, often requires the assessment of multiple vehicle designs in a short timeframe for major vehicle system procurements. The short timeframe does not permit detailed model development for the Army, thus creating a need for methodologies and tools to rapidly evaluate the performance and structural integrity of ground vehicle hull/frame assemblies and cab/crew compartments. The secondary intended use of the tools is the evaluation and optimization of hull/frame and cab/crew compartment concept architectures in the pre-systems acquisition phase of the military vehicle lifecycle.

C.2 Concept Modeling Tool Suite (CMTS) Software

C.2.1 The Contractor, as an independent contractor and not as an agent of the Government, shall develop a CMTS tool that allows rapid evaluation of the structural performance and integrity of ground vehicle hull/frame and cab/crew compartment structures. The tool suite shall provide a means of developing finite element architecture concept models and using the concept models to analyze the effect of geometric, load, and material characteristics (input parameters)associated with the (i) hull/frame and cab/crew compartment architecture and (ii) primary vehicle subsystems on variables characterizing vehicle structural performance (response parameters). Primary vehicle subsystems are defined as the suspension (including steering mechanisms), payload, and propulsion system (see Attachment 1, Software Diagram). The Contractor shall obtain the Contracting Officer's Representative's (COR's) approval for commercial software selected for incorporation into the CMTS software and other software tools developed under this contract.

C.2.2 Input parameters are defined as properties of the hull/frame, cab/crew compartment architecture, and primary vehicle subsystems that have a direct effect on the vehicle structural response. Examples of input parameters can include, but are not limited to, the following: component weights, component geometries, joint configurations, material properties, component attachment points, stiffness properties, damping properties, attachment method, etc. The Contractor shall determine which predefined input parameters of vehicle subsystems are necessary for inclusion in the analysis tool to insure calculation of correct response parameters.

C.2.3 Response parameters are defined as the variables or performance measures returned by the CMTS as results and used to assess vehicle structure performance. These parameters shall include at a minimum: stiffness, modal parameters (natural frequencies, damping ratios, and normal modes), operational stresses, deformation patterns, strain energy distribution, component and total vehicle mass, and vehicle rotational inertia properties. The Contractor may add response parameters to this list.

C.2.4 The software tool shall be modular in that templates of major vehicle subsystem types can be added as new technology emerges. The Contractor shall demonstrate the software modularity by incorporating templates for types of each major primary system and system.

C.2.4.1 The Contractor shall develop payload templates for one (1) hull/frame type:

  1. Multiple rail ladder frame

C.2.4.2 The Contractor shall develop cab/crew compartment templates for the following two (2) common cab/crew compartment types:

  1. Engine forward
  2. Cab forward

C.2.4.3 The Contractor shall develop suspension templates for the following five (5) suspension types:

  1. Leaf spring
  2. Trailing arm
  3. Air spring
  4. Longitudinal torsion bar
  5. Transverse torsion bar

C.2.4.4 The Contractor shall develop propulsion system templates for the following two (2) propulsion system types:

  1. Conventional (engine - transmission - transfer case - differential)
  2. Parallel hybrid

Name of Offeror or Contractor: UNIVERSITY OF LOUISVILLE RESEARCH FOUNDATION INC.

C.2.4.5 The Contractor shall develop payload templates for the following three (3) payload types:

1. Cargo box
2. Flat rack
3. Isolated container

C.2.5 The CMTS software shall be compatible with the structural analysis input files used with the commercially available NASTRAN finite element analysis code. In addition to developing template-based hull/frame and cab/crew compartment finite element models, the CMTS shall allow the user to directly incorporate existing fine element models of either or both assemblies. The software tool shall have the ability to modify the existing assembly model, if used, to incorporate the major vehicle subsystems. A commercial fine element analysis solver, such as NASTRAN, may be used as a means of determining some or all of the system response parameters. However, if a commercial finite element analysis solver is incorporated, the software tool shall be automated in such a way that the user need only provide the template input parameters.

C.2.6 The software tool shall provide a means for specifying input parameters associated with four (4) specific analysis types.

1. Static response
2. Modal response
3. Frequency domain response
4. Time domain response

C.2.6.1 Static response involves the application of concentrated and distributed loads at user-specified locations, and determination of response variables, also at user-specified locations. Static response inputs may address the transportation requirements of flat/lift towing of the vehicle from tow eyes, and vehicle lift from lifting eyes.

C.2.6.2 For modal response calculations, the user shall specify boundary constraints and a frequency range of interest. The CMTS software shall determine system natural frequencies and modes.

C.2.6.3 For frequency domain response calculations, the user will specify input location and response location. The CMTS software shall calculate the corresponding compliance transfer functions as a function of input frequency.

C.2.6.4 The CMTS software shall include a dynamic load module that permits the user to specify the time domain load and suspension inputs as analytical singularity functions. Response variables shall be determined using an appropriate external solver and displayed in the time domain.

C.2.7 The software tool shall include means of graphic visualization of simulation results.

C.2.7.1 The CMTS graphic visualization features shall include, but are not limited to, the following: means for displaying contour plots of hull/frame and cab/crew compartment stress, strain, and deformation due to standard structural and simulated operational loads.

C.2.7.2 The CMTS software shall provide a means of graphically displaying X-Y plots of stress/strain/displacement time histories and frequency response transfer functions at hull/frame locations of the user's choice. The software tool shall provide a means for the user to query individual node/element stress/strain/displacement values.

C.2.7.3 The software tool shall provide a means of exporting simulation results in both a plain ASCII format, and a summary report format.

C.2.7.4 Incorporation of commercial post-processing and visualization tools into the CMTS is acceptable, however, the software tool shall be automated in such a way that the user interface for selecting output result displays is the same user interface used for providing input parameters.

C.2.8 The CMTS user interface shall be a standard Microsoft Windows graphical user interface that includes the following features:

1. Menu bar with options allowing standard file manipulation operations, template selection and editing, viewing and export of results, and access to program documentation.

2. Graphical toolbar providing quick access to critical program functions.

3. Work area for populating templates, specifying analysis parameters, and viewing results.

4. Status bar.

C.2.8.1 The Contractor is responsible for the graphic design (icons, window layouts, template motifs, etc.) of the used interface.

Name of Offeror or Contractor: UNIVERSITY OF LOUISVILLE RESEARCH FOUNDATION INC.

C.2.9 The CMTS software shall include a help system developed using the Microsoft HTML Help 1.4 software development kit (or latest equivalent standard). The help system shall include context sensitive help (including "What's This" help for primary windows and "Tooltip" help for interface features), a table of contents, topic index, and keyword search feature. The help system shall function as a self-contained manual, describing program operation, assumptions and mathematical theory embodied in the software and interpretation of results.

C.3 CMTS Software Validation

C.3.1 The Contractor shall perform sensitivity analyses to check the software
for the purpose of ensuring the models developed with the software are reacting to input sets in an expected, mathematically predictable manner. These analyses include preparing and running tests to compare results for systematically varied sets of input data to see if expected trends in output are demonstrated. The sensitivity analysis shall be performed on all concept model templates developed under this contract.

C.3.2 The Contractor shall perform a stress test by testing the software tool with parameter values reflecting the anticipated extremes in conditions or with combinations of parameter values estimated to cause the most extreme results. The purpose of the stress test is to demonstrate the robustness of the software tool. The stress test shall be performed on all templates developed under this contract. The software tool shall include error trap routines to prevent template population errors or extreme input conditions from creating unrecoverable errors or program instability.

C.3.3 The Contractor shall demonstrate the validity of the CMTS software by using the software to model three (3) wheeled tactical ground vehicles. At least one (1) of these must be a dual-use, commercially-based platform. Among the three (3) vehicles modeled, a minimum of two (2) different propulsion systems and two (2) different suspension types shall be represented (i.e., the three (3) vehicles shall not have the same propulsion and suspension type). The Contractor shall simulate four (4) operational scenarios to include the following:

1. Static loads necessary to determine static structural parameters
    (stiffness, natural frequencies and normal modes, diagonal distortion,
    stress and deformation distributions).
2. Being lifted from its lift eyes
3. Being lift-towed
4. Traversing a test course terrain of which a digitized terrain profile
    exists.

Note: A total of twelve (12) simulations are required (i.e., three (3) vehicles X four (4) operational scenarios).

C.3.4 The Contractor shall compare CMTS results with Contractor-provided experimental data for two (2) of the three (3) wheeled tactical ground vehicles referenced in paragraph C.3.3 above.

C.3.5 The Contractor shall vary the major subsystem parameters (such as payload weight, suspension spring or damping properties, etc.) where practical, and repeat the exercises described in paragraph C.3.3 to further validate the robustness of the software tool.

C.3.6 The Contractor shall demonstrate the accuracy of the software tool by comparing results of exercises described in paragraphs C.3.2 through C.3.5 with results generated using proven alternative analysis methods (e.g., high-fidelity, detailed, finite element models).

C.4 CMTS Methodological Development and Validation

C.4.1 The Contractor shall develop and validate modeling and analysis methodologies necessary for the development of the CMTS.

C.4.1.1 The Contractor shall develop and validate methods for parametric representation of critical structural elements found in hull/frame assemblies and cab/crew compartments. These elements shall include, but are not limited to, the following:

1. Shell/plate structures representing structural and non-structural armor
2. Beam-like components subjected to axial, torsional, and transverse loads
3. Major body joints integrating the geometries of hull/frame cab/crew
    compartment architectures
4. Component assembly joints
5. Non-structural inertia elements

C.4.1.2 Methodological validation studies shall be performed on a minimum of five (5) (total) commercially-based and purpose-designed wheeled tactical ground vehicles, and shall involve comparison of parametric representation results with results from highly detailed finite element models and experimental measurements.

C.5 Structural Gauge Sensitivity Assessment (SGSA) Software

CONTINUATION SHEET	Reference No. of Document Being Continued	Page 11 of 30
	PIIN/SIIN W56HZV-04-C-0314 MOD/AMD	

Name of Offeror or Contractor: UNIVERSITY OF LOUISVILLE RESEARCH FOUNDATION INC.

C.5.1 The Contractor shall develop and validate methods for structural parameter sensitivity assessment that can be used for (i) comparative evaluation of overall vehicle structural effectiveness, (ii) locating structural weak points, and (iii) identifying weight reduction opportunities.

C.5.1.1 These structural gauge sensitivity methods must be applicable to a wide range of wheeled tactical ground vehicles. They must have a well-developed and documented physical and mathematical foundation.

C.5.1.2 These structural gauge sensitivity methods must be capable of structural assessment at the local, component, and global-vehicle levels.

C.5.1.3 The Contractor shall develop an application/interpretation methodology for applying these structural gauge sensitivity methods to dual-use and purpose-build wheeled tactical ground vehicles.

C.5.2 The Contractor shall develop a software tool for automating the application and interpretation of structural gauge sensitivity parameters. The Contractor may select a program architecture appropriate for this SGSA software tool.

C.5.3 Requirements for SGSA user interface standards, help system, and validation testing are identical to those specified for the CMTS software, with the following exceptions:

C.5.3.1 Only two (2) wheeled tactical ground vehicles shall be used in the validation program.

C.5.3.2 The Contractor shall conduct experimentally-based validation studies for local and component structural gauge sensitivity only. The Contractor is responsible for fabricating and testing the specimens used in the experimental validation studies.

C.6 Deliverables

C.6.1 The Contractor shall deliver Contractor's Progress, Status, and Management Reports in accordance with (IAW) Exhibit A, Contract Data Requirements List (CDRL), DD Form 1423, Data Item Number A001.

C.6.2 The Contractor shall deliver semi-annual technical reports IAW Exhibit A, CDRL, DD Form 1423, Data Item Number A002.

C.6.3 The Contractor shall deliver a final technical report IAW Exhibit A, CDRL, DD Form 1423, Data Item Number A003.

C.6.4 The Contractor shall deliver all software products, documentation,and source code IAW Exhibit A, CDRL, DD Form 1423, Data Item Number A004.

C.6.5 The Contractor shall deliver a one to two (1-2) day short course training seminar to the Government, for six (6) people, on the use of the CMTS and SGSA software. The seminar shall be delivered on-site at TACOM, in Warren, MI, by one or more qualified perons representing the Contractor. The Contractor shall provide a seminar outline and copies of training materials, for six (6) people, to the Government IAW Exhibit A, CDRL, DD Form 1423, Data Item Number A005.

C.7 Presentations. The Contractor shall provide two presentations at its site at 12 months and 24 months after contract award. These presentations shall discuss the Contractor's progress toward meeting the contract's requirements, and shall include a demonstration of the CMTS and SGSA software in development.

*** END OF NARRATIVE C 001 ***

Name of Offeror or Contractor: UNIVERSITY OF LOUISVILLE RESEARCH FOUNDATION INC.

SECTION D - PACKAGING AND MARKING

D.1 PACKAGING

    The Contractor shall package all deliverables under this contract in accordance with standard commercial practice to ensure arrival at destination without loss or damage.

D.2 SOFTWARE MARKING

    The Contractor shall mark all software delivered under this contract with the software title, TACOM Contract number, the name and address of the prime Contractor, and the name and address of the Subcontractor (if any) which generated the software. The marking shall be in the format below for prime Contractor or Subcontractor generated software as applicable:

    Software Title
    TACOM Contract Number
    Contractor's Name
    Contractor's Address

    Software Title
    TACOM Contract Number
    Contractor's Name
    Address
    Subcontractor's Name
    Subcontractor's Address

*** END OF NARRATIVE D 001 ***

Name of Offeror or Contractor: UNIVERSITY OF LOUISVILLE RESEARCH FOUNDATION INC.

SECTION E - INSPECTION AND ACCEPTANCE

	Regulatory Cite	Title	Date
E-1	52.246-5	INSPECTION OF SERVICES - COST-REIMBURSEMENT	APR/1984
E-2	52.246-8	INSPECTION OF RESEARCH AND DEVELOPMENT--COST-REIMBURSEMENT (ALTERNATE I (APR 1984))	APR/1984

E.3 INSPECTION AND ACCEPTANCE

    The Contracting Officer's Representative (COR) is responsible for inspecting and accepting or rejecting all reports and software submitted by the Contractor to the Government, at destination, in accordance with the terms of the Contract.

                              *** END OF NARRATIVE E 001 ***

Name of Offeror or Contractor: UNIVERSITY OF LOUISVILLE RESEARCH FOUNDATION INC.

SECTION F - DELIVERIES OR PERFORMANCE

	Regulatory Cite	Title	Date
F-1	52.242-15	STOP WORK ORDER--(ALTERNATE I dated APR 1984)	AUG/1989
F-2	52.247-34	F.O.B. DESTINATION	NOV/1991

F.3 DELIVERY OF REPORTS AND SOFTWARE

    The Contractor shall submit all reports and software electronically in accordance with (IAW) Exhibit A, Contract Data Requuirements List (CDRL) (DD Form 1423).

F.4 PERIOD OF PERFORMANCE

    The period of performance for this Contract shall be thirty-two (32) months from the date of contract award.

*** END OF NARRATIVE F 001 ***

Name of Offeror or Contractor: UNIVERSITY OF LOUISVILLE RESEARCH FOUNDATION INC.

SECTION G - CONTRACT ADMINISTRATION DATA

LINE ITEM	PRON/ AMS CD/ MIPR	ACRN	OBLG STAT	ACCOUNTING CLASSIFICATION	JOB ORDER NUMBER	ACCOUNTING STATION		OBLIGATED AMOUNT
000101	R342C299R3 63300553D11	AA	1	21 42040000046N6N7EP633005255Y S20113	42C299	W56HZV	$	500,000.00
						TOTAL	$	500,000.00

SERVICE NAME	TOTAL BY ACRN	ACCOUNTING CLASSIFICATION	ACCOUNTING STATION		OBLIGATED AMOUNT
Army	AA	21 42040000046N6N7EP633005255Y S20113	W56HZV	$	500,000.00
			TOTAL	$	500,000.00

Regulatory Cite		Title	Date
G-1	52.242-4016 (TACOM)	COMMUNICATIONS	MAY/2000

   (a) Communications on technical matters pertaining to the contract shall be direct between the Contractor and the Contracting Officer's Representative (COR). Communications for the COR shall be addressed to:

                    Name: Mr. Ken Deylami
                    e-mail: DeylamiK@tacom.army.mil
                    Telephone: (586) 753-2618

   (b) The Administrative Contracting Officer's (ACO) name and email address are also provided, as follows:

                    ACO: Mr. Ramsey Baerga
                    e-mail: baergar@onr.navy.mil
                    Telephone: (312) 886-2172

   (c) Please see the appointment letters prepared at time of contract award for functions the COR and ACO will perform on this contract.

                              [End of Clause]

G-2	252.201-7000	CONTRACTING OFFICER'S REPRESENTATIVE	DEC/1991

   (a) Definition. Contracting Officer's Representative means an individual designated in accordance with subsection 201.602-2 of the Defense Federal Acquisition Regulation Supplement and authorized in writing by the contracting officer to perform specific technical or administrative functions.

   (b) If the Contracting Officer designates a contracting officer's representative (COR), the Contractor will receive a copy of the written designation. It will specify the extent of the COR's authority to act on behalf of the contracting officer. The COR is not authorized to make any commitments or changes that will affect price, quality, quantity, delivery, or any other term or condition of the contract.

                              [End of Clause]

G-3	52.227-4004 (TACOM)	RELEASE OF INFORMATION	OCT/2003

The contractor shall ensure that he complies with the requirements of Chapter 5, page 22, paragraph 5-48, of AR 360-1, The Army Public Affairs Program, dated 15 Oct 2000,_prior to contemplated release of any procurement information. Approval of the Contracting Officer is required prior to release of any such information. AR 360-1 may be found at http://www.usapa.army.mil/pdffiles/r360_1.pdf   .

                              [End of clause]
                                   ***

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   G-4        52.232-4005    INVOICE INFORMATION REQUIREMENT                              JAN/1988
              (TACOM)
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On each payment request submitted, the Contractor shall identify each affected Contract Line Item Number (CLIN), sub-CLIN, and/or work directive, together with the related dollar amounts. This requirement does not diminish or restrict any other requirement of this contract.

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G.5       CONTRACTOR: SPECIAL BILLING INSTRUCTIONS:
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G.5.1   The Contractor shall bill to the alpha numeric Sub-Line Item Number (SLIN) level and ACRN under the four-digit Contract Line Item Number (CLIN), see Section B, for which the work effort was performed.

G.5.2   If multiple SLINs exist on the same four-digit major CLIN, the Contractor shall determine which alpha-numeric SLIN contains the oldest fiscal year money and invoice against the SLIN containing the oldest money, until fully billed.

G.5.3.   To determine the fiscal year of funds, refer to the "Job Order Number" (JON) column that applies to ALL funding under the four digit CLIN, as shown in Section G - Contract Administration Data. The first digit of the JON represents the fiscal year. (For example, CLIN 0001 is funded by SLINs 000101, and 000102. If JON: 42C334 is associated with 000101 and JON: 52C205, associated with 000102, SLIN 000101 is FY 2004 funding and shall be invoiced prior to invoicing against SLIN 000102, which is FY 2005 funding.)

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G.6       DFAS: SPECIAL PAYMENT INSTRUCTIONS:
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          DFAS will make payments as billed by the contractor.

<p align="center">*** END OF NARRATIVE G 001 ***</p>

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SECTION H - SPECIAL CONTRACT REQUIREMENTS

	Regulatory Cite	Title	Date
H-1	252.204-7000	DISCLOSURE OF INFORMATION	DEC/1991
H-2	252.204-7002	PAYMENT FOR SUBLINE ITEMS NOT SEPARATELY PRICED	DEC/1991
H-3	252.205-7000	PROVISION OF INFORMATION TO COOPERATIVE AGREEMENT HOLDERS	DEC/1991
H-4	252.223-7006	PROHIBITION ON STORAGE AND DISPOSAL OF TOXIC AND HAZARDOUS MATERIALS	APR/1993
H-5	252.225-7001	BUY AMERICAN ACT AND BALANCE OF PAYMENTS PROGRAM	APR/2003
H-6	252.225-7002	QUALIFYING COUNTRY SOURCES AS SUBCONTRACTORS	APR/2003
H-7	252.225-7004	REPORTING OF CONTRACT PERFORMANCE OUTSIDE THE UNITED STATES	APR/2003
H-8	252.225-7013	DUTY-FREE ENTRY	JAN/2004
H-9	252.227-7036	DECLARATION OF TECHNICAL DATA CONFORMITY	JAN/1997
H-10	252.227-7037	VALIDATION OF RESTRICTIVE MARKINGS ON TECHNICAL DATA	SEP/1999
H-11	252.235-7011	FINAL SCIENTIFIC OR TECHNICAL REPORT	SEP/1999
H-12	252.246-7000	MATERIAL INSPECTION AND RECEIVING REPORT	MAR/2003
H-13	252.246-7001	WARRANTY OF DATA	DEC/1991
H-14	252.227-7039	PATENTS -- REPORTING OF SUBJECT INVENTIONS	APR/1990

The Contractor shall furnish the Contracting Officer the following:

(a) Interim reports every twelve (12) months (or such longer period as may be specified by the Contracting Officer) from the date of the contract, listing subject inventions during that period and stating that all subject inventions have been disclosed or that there are no such inventions.

(b) A final report, within three (3) months after completion of the contracted work, listing all subject inventions or stating that there were no such inventions.

(c) Upon request, the filing date, serial number and title, a copy of the patent application and patent number, and issue data for any subject invention for which the Contractor has retained title.

(d) Upon request, the Contractor shall furnish the Government an irrevocable power to inspect and make copies of the patent application file.

(End of clause)

H-15	52.204-4005	REQUIRED USE OF ELECTRONIC CONTRACTING	JUN/2004

H-16	52.216-4008	STATUS OF FUNDS ON COST REIMBURSEMENT CONTRACTS/CLINS	JUN/1989
	(TACOM)		

(a) The Contractor shall review the funding as it relates to work performed on the cost-reimbursement Contract Line Item Numbers (CLINs) under this contract and shall provide to the Procuring Contracting Officer (PCO) a written determination of what, if any, funds are excess to requirements (leaving a reasonable amount for final overhead rate negotiations and other reasonably predicted requirements) and are available for deobligation. This review shall be coordinated with the Administrative Contracting Officer (ACO), and the written determination shall be accomplished within 120 days of completion of performance under the CLIN. The report shall be prepared in terms of dollars available per Purchase Request Order Number (PRON), unless requested otherwise by the PCO.

(b) This report may be requested in writing by the PCO on additional occasions during the course of performance of work on cost-reimbursable CLINs contained in this contract. On such occasions, the written report shall be provided to the PCO within 14 days of Contractor receipt of the written request.

(End of clause)

H-17	52.246-4026	LOCAL ADDRESSES FOR DD FORM 250	JAN/2002
	(TACOM)		

(a) The contractor must provide a copy of each Material Inspection and Receiving Report (DD 250) pertaining to this contract, to the addresses given below, using either of the following methods:

(1) Our first preference is for you to use electronic mail (e-mail), using the following e-mail address: DD250@tacom.army.mil

(2) Our second preference is for you to use data facsimile (datafax) transmission, using this fax number: (586) 574-5527 and use "DD250 mailbox" in the "to:" block of your fax cover or header sheet.

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In either method, do not mix DD250s from more than one contract in a single transmmission. That is, you may submit multiple DD250s in a single transmission, but they must all be against the same contract.

(b) These copies meet the requirements for the Purchasing Office copy and the Army Inventory Control Manager copy listed in tables 1 and 2 of DFARS Appendix F.

(c) The DD250 form may be found, in three different formats, on the World Wide Web at http://web1.whs.osd.mil/icdhome/DD-0999.htm

[End of Clause]

H.18 SUBCONTRACTING PLAN

The Contractor has submitted a subcontracting plan dated 7 May 04, and revised 4 Jun 04, which is hereby incorporated into this contracct by reference pursuant to the requirements of FAR 52.219-9 and DFARS 252.219-7003.

*** END OF NARRATIVE H 001 ***

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SECTION I - CONTRACT CLAUSES

    This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this address: http://farsite.hill.af.mil/

[End of Clause]

	Regulatory Cite	Title	Date
I-1	52.202-1	DEFINITIONS	DEC/2001
I-2	52.203-3	GRATUITIES	APR/1984
I-3	52.203-5	COVENANT AGAINST CONTINGENT FEES	APR/1984
I-4	52.203-6	RESTRICTIONS ON SUBCONTRACTOR SALES TO THE GOVERNMENT	JUL/1995
I-5	52.203-7	ANTI-KICKBACK PROCEDURES	JUL/1995
I-6	52.203-8	CANCELLATION, RESCISSION AND RECOVERY OF FUNDS FOR ILLEGAL OR IMPROPER ACTIVITY	JAN/1997
I-7	52.203-10	PRICE OR FEE ADJUSTMENT FOR ILLEGAL OR IMPROPER ACTIVITY	JAN/1997
I-8	52.203-12	LIMITATION ON PAYMENTS TO INFLUENCE CERTAIN FEDERAL TRANSACTIONS	JUN/2003
I-9	52.204-4	PRINTING/COPYING DOUBLE-SIDED ON RECYCLED PAPER	AUG/2000
I-10	52.209-6	PROTECTING THE GOVERNMENT'S INTEREST WHEN SUBCONTRACTING WITH CONTRACTORS DEBARRED, SUSPENDED, OR PROPOSED FOR DEBARMENT	JUL/1995
I-11	52.211-15	DEFENSE PRIORITY AND ALLOCATION REQUIREMENTS	SEP/1990
I-12	52.215-2 (ALT II)	AUDIT AND RECORDS - NEGOTIATION (ALTERNATE II--APR 1998)	JUN/1999
I-13	52.215-8	ORDER OF PRECEDENCE--UNIFORM CONTRACT FORMAT	OCT/1997
I-14	52.215-10	PRICE REDUCTION FOR DEFECTIVE COST OR PRICING DATA	OCT/1997
I-15	52.215-12	SUBCONTRACTOR COST OR PRICING DATA	OCT/1997
I-16	52.215-14	INTEGRITY OF UNIT PRICES	OCT/1997
I-17	52.215-17	WAIVER OF FACILITIES CAPITAL COST OF MONEY	OCT/1997
I-18	52.216-7	ALLOWABLE COST AND PAYMENT note: Delete from paragraph (a) the words SUBPART 31.2 and substitute SUBPART 31.3	DEC/2002
I-19	52.216-11	COST CONTRACT--NO FEE (ALTERNATE I (1984 APR))	APR/1984
I-20	52.216-15	PREDETERMINED INDIRECT COST RATES	APR/1998
I-21	52.219-8	UTILIZATION OF SMALL BUSINESS CONCERNS	OCT/2000
I-22	52.219-9	SMALL BUSINESS SUBCONTRACTING PLAN	JAN/2002
I-23	52.219-16	LIQUIDATED DAMAGES - SUBCONTRACTING PLAN	JAN/1999
I-24	52.222-1	NOTICE TO THE GOVERNMENT OF LABOR DISPUTES	FEB/1997
I-25	52.222-4	CONTRACT WORK HOURS AND SAFETY STANDARDS ACT--OVERTIME COMPENSATION	SEP/2000
I-26	52.222-21	PROHIBITION OF SEGREGATED FACILITIES	FEB/1999
I-27	52.222-26	EQUAL OPPORTUNITY	APR/2002
I-28	52.222-35	AFFIRMATIVE ACTION FOR DISABLED VETERANS AND VETERANS OF THE VIETNAM ERA	DEC/2001
I-29	52.222-36	AFFIRMATIVE ACTION FOR WORKERS WITH DISABILITIES	JUN/1998
I-30	52.222-37	EMPLOYMENT REPORTS ON SPECIAL DISABLED VETERANS, VETERANS OF THE VIETNAM ERA, AND OTHER ELIGIBLE VETERANS	DEC/2001
I-31	52.223-5	POLLUTION PREVENTION AND RIGHT-TO-KNOW INFORMATION	AUG/2003
I-32	52.223-6	DRUG FREE WORKPLACE	MAY/2001
I-33	52.223-14	TOXIC CHEMICAL RELEASE REPORTING	AUG/2003
I-34	52.225-13	RESTRICTIONS ON CERTAIN FOREIGN PURCHASES	JAN/2004
I-35	52.226-1	UTILIZATION OF INDIAN ORGANIZATIONS AND INDIAN-OWNED ECONOMIC ENTERPRISES	JUN/2000
I-36	52.227-1	AUTHORIZATION AND CONSENT (ALTERNATE I dated April 1984)	JUL/1995
I-37	52.227-2	NOTICE AND ASSISTANCE REGARDING PATENT AND COPYRIGHT INFRINGEMENT	AUG/1996
I-38	52.227-11	PATENT RIGHTS--RETENTION BY THE CONTRACTOR (SHORT FORM)	JUN/1997
I-39	52.228-7	INSURANCE--LIABILITY TO THIRD PERSONS	MAR/1996
I-40	52.230-5	COST ACCOUNTING STANDARDS - EDUCATIONAL INSTITUTIONS	APR/1998
I-41	52.230-6	ADMINISTRATION OF COST ACCOUNTING STANDARDS	NOV/1999
I-42	52.232-9	LIMITATION ON WITHHOLDING OF PAYMENTS	APR/1984
I-43	52.232-22	LIMITATION OF FUNDS	APR/1984
I-44	52.232-23	ASSIGNMENT OF CLAIMS	JAN/1986
I-45	52.232-25	PROMPT PAYMENT	OCT/2003
I-46	52.232-33	PAYMENT BY ELECTRONIC FUNDS TRANSFER--CENTRAL CONTRACTOR REGISTRATION	OCT/2003
I-47	52.233-1	DISPUTES	JUL/2002
I-48	52.233-3	PROTEST AFTER AWARD -- (ALTERNATE I, dated JUN 1985)	AUG/1996

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	Regulatory Cite	Title	Date
I-49	52.242-1	NOTICE OF INTENT TO DISALLOW COSTS	APR/1984
I-50	52.242-3	PENALTIES FOR UNALLOWABLE COSTS	MAY/2001
I-51	52.242-4	CERTIFICATION OF INDIRECT COSTS	JAN/1997
I-52	52.242-13	BANKRUPTCY	JUL/1995
I-53	52.243-2	CHANGES--COST-REIMBURSEMENT (ALTERNATE V, dated April 1984))	AUG/1987
I-54	52.243-7	NOTIFICATION OF CHANGES	APR/1984
I-55	52.244-2	SUBCONTRACTS (ALT I--AUG 1998)	AUG/1998
I-56	52.244-5	COMPETITION IN SUBCONTRACTING	DEC/1996
I-57	52.245-5	GOVERNMENT PROPERTY (COST-REIMBURSEMENT, TIME-AND-MATERIAL, OR LABOR-HOUR CONTRACTS) (Deviation, per DAR Tracking Number 99-00008, 13 July 99)	JUN/2003
I-58	52.246-23	LIMITATION OF LIABILITY	FEB/1997
I-59	52.249-5	TERMINATION FOR CONVENIENCE OF THE GOVERNMENT (EDUCATIONAL AND OTHER NONPROFIT INSTITUTIONS)	SEP/1996
I-60	52.253-1	COMPUTER GENERATED FORMS	JAN/1991
I-61	252.203-7001	PROHIBITION ON PERSONS CONVICTED OF FRAUD OR OTHER DEFENSE CONTRACT-RELATED FELONIES	MAR/1999
I-62	252.204-7003	CONTROL OF GOVERNMENT PERSONNEL WORK PRODUCT	APR/1992
I-63	252.209-7000	ACQUISITION FROM SUBCONTRACTORS SUBJECT TO ON-SITE INSPECTION UNDER THE INTERMEDIATE-RANGE NUCLEAR FORCES (INF) TREATY	NOV/1995
I-64	252.209-7004	SUBCONTRACTING WITH FIRMS THAT ARE OWNED OR CONTROLLED BY THE GOVERNMENT OF A TERRORIST COUNTRY per DoD interim rule, Federal Register 27 Mar 98	MAR/1998
I-65	252.209-7005	MILITARY RECRUITING ON CAMPUS	JAN/2000
I-66	252.211-7005	SUBSTITUTIONS FOR MILITARY OR FEDERAL SPECIFICATIONS AND STANDARDS	FEB/2003
I-67	252.215-7000	PRICING ADJUSTMENTS	DEC/1991
I-68	252.215-7002	COST ESTIMATING SYSTEM REQUIREMENTS	OCT/1998
I-69	252.219-7003	SMALL, SMALL DISADVANTAGED AND WOMEN-OWNED SMALL BUSINESS SUBCONTRACTING PLAN (DOD CONTRACTS)	APR/1996
I-70	252.225-7012	PREFERENCE FOR CERTAIN DOMESTIC COMMODITIES	FEB/2003
I-71	252.225-7031	SECONDARY ARAB BOYCOTT OF ISRAEL	APR/2003
I-72	252.227-7013	RIGHTS IN TECHNICAL DATA --NONCOMMERCIAL ITEMS	NOV/1995
I-73	252.227-7014	RIGHTS IN NONCOMMERCIAL COMPUTER SOFTWARE AND NONCOMMERCIAL COMPUTER SOFTWARE DOCUMENTATION	JUN/1995
I-74	252.227-7016	RIGHTS IN BID OR PROPOSAL INFORMATION	JUN/1995
I-75	252.227-7017	IDENTIFICATION AND ASSERTION OF USE, RELEASE, OR DISCLOSURE RESTRICTIONS	JUN/1995
I-76	252.227-7019	VALIDATION OF ASSERTED RESTRICTIONS--COMPUTER SOFTWARE	JUN/1995
I-77	252.227-7028	TECHNICAL DATA OR COMPUTER SOFTWARE PREVIOUSLY DELIVERED TO THE GOVERNMENT	JUN/1995
I-78	252.227-7030	TECHNICAL DATA--WITHHOLDING OF PAYMENT	MAR/2000
I-79	252.227-7034	PATENTS--SUBCONTRACTS	APR/1984
I-80	252.227-7036	DECLARATION OF TECHNICAL DATA CONFORMITY	JAN/1997
I-81	252.227-7037	VALIDATION OF RESTRICTIVE MARKINGS ON TECHNICAL DATA	SEP/1999
I-82	252.243-7002	REQUESTS FOR EQUITABLE ADJUSTMENT	MAR/1998
I-83	252.244-7000	SUBCONTRACTS FOR COMMERCIAL ITEMS AND COMMERCIAL COMPONENTS (DoD CONTRACTS)	MAR/2000

I-84	52.222-2	PAYMENT FOR OVERTIME PREMIUMS	JUL/1990

    (a) The use of overtime is authorized under this contract if the overtime premium cost does not exceed zero (0) or the overtime premium is paid for work--

        (1) Necessary to cope with emergencies such as those resulting from accidents, natural disasters, breakdown of production equipment, or occasional production bottlenecks of a sporadic nature;

        (2) By indirect-labor employees such as those performing duties in connection with administration, protection, transportation, maintenance, standby plant protection, operation of utilities, or accounting;

        (3) To perform tests, industrial processes, laboratory procedures, loading or unloading of transportation conveyances, and operations in flight or afloat that are continuous in nature and cannot reasonably be interrupted or completed otherwise; or

        (4) That will result in lower overall costs to the Government.

    (b) Any request for estimated overtime premiums that exceeds the amount specified above shall include all estimated overtime for contract completion and shall--

        (1) Identify the work unit; e.g., department or section in which the requested overtime will be used, together with present

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workload, staffing, and other data of the affected unit sufficient to permit the Contracting Officer to evaluate the necessity for the overtime;

　　　(2)　Demonstrate the effect that denial of the request will have on the contract delivery or performance schedule;

　　　(3)　Identify the extent to which approval of overtime would affect the performance or payments in connection with other Government contracts, together with identification of each affected contract; and

　　　(4)　Provide reasons why the required work cannot be performed by using multishift operations or by employing additional personnel.

<div align="center">(End of clause)</div>

　I-85　　　　52.243-7　　　NOTIFICATION OF CHANGES　　　　　　　　　　　　　　　　　　　APR/1984

　　(a)　Definitions.　Contracting Officer, as used in this clause, does not include any representative of the Contracting Officer. Specifically authorized representative (SAR), as used in this clause, means any person the Contracting Officer has so designated by written notice (a copy of which shall be provided to the Contractor) which shall refer to this subparagraph and shall be issued to the designated representative before the SAR exercises such authority.

　　(b)　Notice.　The primary purpose of this clause is to obtain prompt reporting of Government conduct that the Contractor considers to constitute a change to this contract.　Except for changes identified as such in writing and signed by the Contracting Officer, the Contractor shall notify the Administrative Contracting Officer in writing promptly, within thirty (30) calendar days from the date that the Contractor identifies any Government conduct (including actions, inactions, and written or oral communications) that the Contractor regards as a change to the contract terms and conditions.　On the basis of the most accurate information available to the Contractor, the notice shall state--

　　　(1)　the date, nature, and circumstances of the conduct regarded as a change;

　　　(2)　The name, function, and activity of each Government individual and Contractor official or employee involved in or knowledgeable about such conduct;

　　　(3)　The identification of any documents and the substance of any oral communication involved in such conduct;

　　　(4)　In the instance of alleged acceleration of scheduled performance or delivery, the basis upon which it arose;

　　　(5)　The particular elements of contract performance for which the Contractor may seek an equitable adjustment under this clause, including--

　　　　(i)　What contract line items have been or may be affected by the alleged change;

　　　　(ii)　What labor or materials or both have been or may be added, deleted, or wasted by the alleged change;

　　　　(iii)　To the extent practicable, what delay and disruption in the manner and sequence of performance and effect on continued performance have been or may be caused by the alleged change;

　　　　(iv)　What adjustments to contract price, delivery schedule, and other provisions affected by the alleged change are estimated; and

　　　(6)　The Contractor's estimate of the time by which the Government must respond to the Contractor's notice to minimize cost, delay or disruption of performance.

　　(c)　Continued performance.　Following submission of the notice required by (b) above, the Contractor shall diligently continue performance of this contract to the maximum extent possible in accordance with its terms and conditions as construed by the Contractor, unless the notice reports a direction of the Contracting Officer or a communication from a SAR of the Contracting Officer, in either of which events the Contractor shall continue performance; provided, however, that if the Contractor regards the direction or communication as a change as described in (b) above, notice shall be given in the manner provided.　All directions, communications, interpretations, orders, and similar actions of the SAR shall be reduced to writing promptly and copies furnished to the Contractor and the Contracting Officer.　The Contracting Officer shall promptly countermand any action which exceeds the authority of the SAR.

　　(d)　Government response.　The Contracting Officer shall promptly, within thirty (30) calendar days after receipt of notice, respond to the notice in writing.　In responding, the Contracting Officer shall either--

　　　(1)　Confirm that the conduct of which the Contractor gave notice constitutes a change and when necessary direct the mode of further performance;

　　　(2)　Countermand any communication regarded as a change;

CONTINUATION SHEET	**Reference No. of Document Being Continued**	**Page** 22 **of** 30
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(3) Deny that the conduct of which the Contractor gave notice constitutes a change and when necessary direct the mode of further performance; or

(4) In the event the Contractor's notice information is inadequate to make a decision under (1), (2), or (3) above, advise the Contractor what additional information is required, and establish the date by which it should be furnished and the date thereafter by which the Government will respond.

(e) Equitable adjustments.

(1) If the Contracting Officer confirms that Government conduct effected a change as alleged by the Contractor, and the conduct causes an increase or decrease in the Contractor's cost of, or the time required for, performance of any part of the work under this contract, whether changed or not changed by such conduct, an equitable adjustment shall be made--

(i) In the contract price or delivery schedule or both; and

(ii) In such other provisions of the contract as may be affected.

(2) The contract shall be modified in writing accordingly. In the case of drawings, designs or specifications which are defective and for which the Government is responsible, the equitable adjustment shall include the cost and time extension for delay reasonably incurred by the Contractor in attempting to comply with the defective drawings, designs or specifications before the Contractor identified, or should have identified, such defect. When the cost of property made obsolete or excess as a result of a change confirmed by the Contracting Officer under this clause is included in the equitable adjustment, the Contracting Officer shall have the right to prescribe the manner of disposition of the property. The equitable adjustment shall not include increased costs or time extensions for delay resulting from the Contractor's failure to provide notice or to continue performance as provided, respectively, in (b) and (c) above.

NOTE: The phrases contract price and cost wherever they appear in the clause, may be appropriately modified to apply to cost-reimbursement or incentive contracts, or to combinations thereof.

[End of Clause]

I-86　　　52.223-11　　　OZONE-DEPLETING SUBSTANCES　　　　　　　　　　　　　　　　　MAY/2001

(a) Definition. Ozone-depleting substance, as used in this clause, means any substance the Evironnmental Protection Agency designates in 40 CFR part 82 as--

(1) Class I, including, but not limited to, chlorofluorocarbons, halons, carbon tetrachloride, and methyl chloroform; or

(2) Class II, including but not limited to, hydrochlorofluorocarbons.

(b) The Contractor shall label products which contain or are manufactured with ozone-depleting substances in the manner and to the extent required by 42 U.S.C. 7671j(b), (c), and (d) and 40 CFR Part 82, Subpart E, as follows:

WARNING: Contains (or manufactured with, if applicable) _____ * _____, a substance(s) which harm(s) public health and environment by destroying ozone in the upper atmosphere.

*The Contractor shall insert the name of the substance(s).

[End of Clause]

I-87　　　252.204-7004　　　ALTERNATE A　　　　　　　　　　　　　　　　　　　　　　NOV/2003

As prescribed in 204.1104, substitute the following paragraph (a) for paragraph (a) of the clause at FAR 52.204-7:

(a) Definitions. As used in this clause--

"Central Contractor Registration (CCR) database" means the primary Government repository for contractor information required for the conduct of business with the Government.

"Commercial and Government Entity (CAGE) code" means--

(1) A code assigned by the Defense Logistics Information Service (DLIS) to identify a commercial or Government entity; or

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(2) A code assigned by a member of the North Atlantic Treaty Organization that DLIS records and maintains in the CAGE master file. This type of code is known as an "NCAGE code."

"Data Universal Numbering System (DUNS) number" means the 9-digit number assigned by Dun and Bradstreet, Inc. (D&B) to identify unique business entities.

"Data Universal Numbering System +4 (DUNS+4) number" means the DUNS number assigned by D&B plus a 4-character suffix that may be assigned by a business concern. (D&B has no affiliation with this 4-character suffix.) This 4-character suffix may be assigned at the discretion of the business concern to establish additional CCR records for identifying alternative Electronic Funds Transfer (EFT) accounts (see Subpart 32.11 of the Federal Acquisition Regulation) for the same parent concern.

"Registered in the CCR database" means that-

(1) The Contractor has entered all mandatory information, including the DUNS number or the DUNS+4 number, into the CCR database;

(2) The Contractor's CAGE code is in the CCR database; and

(3) The Government has validated all mandatory data fields and has marked the records "Active."

[End of Clause]

 I-88   252.247-7023   TRANSPORTATION OF SUPPLIES BY SEA   MAY/2002

   (a) Definitions. As used in this clause--

      (1) Components means articles, materials, and supplies incorporated directly into end products at any level of manufacture, fabrication, or assembly by the Contractor or any subcontractor.

      (2) Department of Defense (DoD) means the Army, Navy, Air Force, Marine Corps, and defense agencies.

      (3) Foreign flag vessel means any vessel that is not a U.S.-flag vessel.

      (4) Ocean transportation means any transportation aboard a ship, vessel, boat, barge, or ferry through international waters.

      (5) Subcontractor means a supplier, materialman, distributor, or vendor at any level below the prime contractor whose contractual obligation to perform results from, or is conditioned upon, award of the prime contract and who is performing any part of the work or other requirement of the prime contract. However, effective May 1, 1996, the term does not include a supplier, materialman, distributor, or vendor of commercial items or commercial components.

      (6) Supplies means all property, except land and interests in land, that is clearly identifiable for eventual use by or owned by the DoD at the time of transportation by sea.

         (i) An item is clearly identifiable for eventual use by the DoD if, for example, the contract documentation contains a reference to a DoD contract number or a military destination.

         (ii) Supplies includes (but is not limited to) public works; buildings and facilities; ships; floating equipment and vessels of every character, type, and description, with parts, subassemblies, accessories, and equipment; machine tools; material; equipment; stores of all kinds; end items; construction materials; and components of the foregoing.

      (7) U.S.-flag vessel means a vessel of the United States or belonging to the United States, including any vessel registered or having national status under the laws of the United States.

   (b)

      (1) The Contractor shall use U.S.-flag vessels when transporting any supplies by sea under this contract.

      (2) A subcontractor transporting supplies by sea under this contract shall use U.S.-flag vessels if-

         (i) This contract is a construction contract; or

         (ii) The supplies being transported are-

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(A) Noncommercial items; or

(B) Commercial items that-

(1) The Contractor is reselling or distributing to the Government without adding value (generally, the Contractor does not add value to items that it subcontracts for f.o.b. destination shipment);

(2) Are shipped in direct support of U.S. military contingency operations, exercises, or forces deployed in humanitarian or peacekeeping operations; or

(3) Are commissary or exchange cargoes transported outside of the Defense Transportation System in accordance with 10 U.S.C. 2643.

(c) The Contractor and its subcontractors may request that the Contracting Officer authorize shipment in foreign-flag vessels, or designate available U.S.-flag vessels, if the Contractor or a subcontractor believes that--

(1) U.S.-flag vessels are not available for timely shipment;

(2) The freight charges are inordinately excessive or unreasonable; or

(3) Freight charges are higher than charges to private persons for transportation of like goods.

(d) The Contractor must submit any request for use of other than U.S.-flag vessels in writing to the Contracting Officer at least 45 days prior to the sailing date necessary to meet its delivery schedules. The Contracting Officer will process requests submitted after such date(s) as expeditiously as possible, but the Contracting Officer's failure to grant approvals to meet the shipper's sailing date will not of itself constitute a compensable delay under this or any other clause of this contract. Requests shall contain at a minimum--

(1) Type, weight, and cube of cargo;

(2) Required shipping date;

(3) Special handling and discharge requirements;

(4) Loading and discharge points;

(5) Name of shipper and consignee;

(6) Prime contract number; and

(7) A documented description of efforts made to secure U.S.-flag vessels, including points of contact (with names and telephone numbers) with at least two U.S.-flag carriers contacted. Copies of telephone notes, telegraphic and facsimile message or letters will be sufficient for this purpose.

(e) The Contractor shall, within 30 days after each shipment covered by this clause, provide the Contracting Officer and the Division of National Cargo, Office of Market Development, Maritime Administration, U.S. Department of Transportation, Washington, DC 20590, one copy of the rated on board vessel operating carrier's ocean bill of lading, which shall contain the following information--

(1) Prime contract number;

(2) Name of vessel;

(3) Vessel flag of registry;

(4) Date of loading;

(5) Port of loading;

(6) Port of final discharge;

(7) Description of commodity;

(8) Gross weight in pounds and cubic feet if available;

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(9) Total ocean freight in U.S. dollars; and

(10) Name of the steamship company.

(f) The Contractor shall provide with its final invoice under this contract a representation that to the best of its knowledge and belief--

(1) No ocean transportation was used in the performance of this contract;

(2) Ocean transportation was used and only U.S.-flag vessels were used for all ocean shipments under the contract;

(3) Ocean transportation was used, and the Contractor had the written consent of the Contracting Officer for all non-U.S.-flag ocean transportation; or

(4) Ocean transportation was used and some or all of the shipments were made on non-U.S.-flag vessels without the written consent of the Contracting Officer. The Contractor shall describe these shipments in the following format:

```
          ITEM              CONTRACT
       DESCRIPTION         LINE ITEMS        QUANTITY           TOTAL
```

(g) If the final invoice does not include the required representation, the Government will reject and return it to the Contractor as an improper invoice for the purposes of the Prompt Payment clause of this contract. In the event there has been unauthorized use of non-U.S.-flag vessels in the performance of this contract, the Contracting Officer is entitled to equitably adjust the contract, based on the unauthorized use.

(h) In the award of subcontracts for the types of supplies described in paragraph (b)(2) of this clause, the Contractor shall flow down the requirements of this clause as follows:

(1) The Contractor shall insert the substance of this clause, including this paragraph (h) in all subcontracts that exceed the simplified acquisition threshold in Part 2 of the Federal Acquisition Regulation.

(2) The Contractor shall insert the substance of paragraphs (a) through (e) of this clause, and this paragraph (h), in subcontracts that are at or below the simplified acquisition threshold in Part 2 of the Federal Acquisition Regulation.

[End of Clause]

  I-89   252.247-7024   NOTIFICATION OF TRANSPORTATION OF SUPPLIES BY SEA   MAR/2000

(a) The Contractor has indicated by the response to the solicitation provision, Representation of Extent of Transportation by Sea, that it did not anticipate transporting by sea any supplies. If however, after the award of this contract, the Contractor learns that supplies, as defined in the Transportation of Supplies by Sea clause of this contract, will be transported by sea, the Contractor--

(1) Shall notify the Contracting Officer of that fact; and

(2) Hereby agrees to comply with all the terms and conditions of the Transportation of Supplies by Sea clause of this contract.

(b) The Contractor shall include this clause, including this paragraph (b), revised as necessary to reflect the relationship of the contracting parties

(1) In all subcontracts hereunder, if this contract is a construction contract; or

(2) If this contract is not a construction contract, in all subcontracts under this contract that are for--

(i) Noncommmercial items; or

(ii) Commercial items that-

(A) The Contractor is reselling or distributing to the Government without adding value (generally, the Contractor does not add value to items that it subcontracts for f.o.b. destination shipment);

(B) Are shipped in direct support of U.S. military contingency operations, exercises, or forces deployed in humanitarian or peacekeeping operations; or

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(C) Are commissary or exchange cargoes transported outside of the Defense Transportation System in accordance with 10 U.S.C. 2643.

[End of Clause]

I-90   52.204-4009   MANDATORY USE OF CONTRACTOR TO GOVERNMENT ELECTRONIC COMMUNICATION   JUN/1999
          (TACOM)

    (a)   All references in the contract to the submission of written documentation shall mean electronic submission. All electronic submissions shall be in the formats and media described in the "Electronic Quotations/Offers/Bids Required in Response to this Request for Quotations/Proposals/Bids" clause elsewhere in this document. (See Section K for commercial acquisitions, Section L for RFPs, and Section I for RFQs.)

    (b)   This shall include all written unclassified communications between the Government and the Contractor except contract awards and contract modifications which shall be posted on the internet. Return receipt shall be used if a commercial application is available. Classified information shall be handled in full accordance with the appropriate security requirements.

    (c)   In order to be contractually binding, all Government communications requiring a Contracting Officer signature must be sent from the Contracting Officer's e-mail address. The Contractor shall designate the personnel with signature authority who can contractually bind the contractor. All binding contractor communication shall be sent from this contractor e-mail address(es).

    (d)   Upon award, the Contractor shall provide the Contracting Officer with a list of e-mail addresses for all administrative and technical personnel assigned to this contract.

    (e)   Unless exempted by the Procuring Contracting Officer in writing, all unclassified written communication after contract award shall be transmitted electronically.

[End of Clause]

I-91   52.215-4404   DATA AND COMMUNICATIONS SUBMITTED TO THE GOVERNMENT ELECTRONICALLY   MAY/2002
          (TACOM)

    (a)   The Government often employs contractors as system administrators to operate and maintain Government computer systems. These systems include local area networks, web sites, databases, other electronic records, e-mail accounts, other electronic data transfer mechanisms and computer software. The employees of these contracted system administrators sign nondisclosure agreements obligating them not to reveal information contained in files, documents, computers or systems that they administer. However, unless such information is protected in some way, contracted system administrators do have the ability to access such information.

    (b)   Potential contractors as well as any other parties are thus advised to take steps needed to prevent access by contracted system administrators to information submitted electronically to the Government. Absent such steps, it is assumed that contracted system administrators are permitted the capability to access the data. The access will be limited to that which is necessary for the contract system administrator to perform its duties for the Government. The access shall be subject to the condition that third party information is not to be revealed by the contracted system administrator.

[End of Clause]

I-92   52.215-4405   ACCESS TO THE DETROIT ARSENAL; IDENTIFYING CONTRACTOR EMPLOYEES; NON-   NOV/2002
          (TACOM)   DISCLOSURE STATEMENT

1. This requirement is only applicable to contractor employees working at, or visiting, Detroit Arsenal. The term "contractor employee" includes employees, agents, or representatives and all employees, agents or representatives of all subcontractors and suppliers.

2. (A) Badges/Passes: Contractor employees entering the Detroit Arsenal are responsible for obtaining, and then returning, security identification badges/passes and vehicle registration decals/passes. Badges are valid only for the date spans indicated, by the Government, on each badge application form (STA Form 15 or 4109).

    (B) Obtaining Badges:
                    "PICTURE" badges (generally issued to longer term visitors):
Furnish the Requiring Office or Procuring Contracting Officer (PCO) with two (2) copies, fully completed (those sections for each applicant), and signed, of STA Form 15 for each applicant;

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"<u>NON-PICTURE</u>" badges (generally issued to shorter term visitors):
Upon arriving at the Detroit Arsenal at the TACOM Public Safety Office, Bldg. 232, complete a STA Form 4109 for the specific short term visit in question.

    (C) Returning Badges (to the TACOM Public Safety Office, Building 232).
        --Return Non-picture badges upon its expiration date.
        --Return Picture badges within (3) three business days of any of the
following:
        The access-expiration date specified on the STA Form 15
        If the contract is terminated, the date of termination;
        If a visiting contractor employee is released, the date of employee release.

        --Failure to comply with the requirements of this paragraph 2C may
be grounds for withholding any funds due the contractor until completion of the requirement, notwithstanding any other clause or requirements in the contract. Failure to comply may also be taken into account by the Government in evaluating the contractor's past performance on future acquisitions .

    (D) All contractor employees, while on the premises at TACOM Warren, shall continually wear the badge, which shall be visible at all times.

    (E) The identification badge or pass issued to employees of the contractor is for his own use only. Misuse of the badge or pass, such as permitting others to use it will result in criminal charges under Title 18 USC 499 and 701, and barring the employee from the Detroit Arsenal property.

    (F) If the contractor obtains a new or follow-on contract that again requires physical access to the Detroit Arsenal property, he shall obtain new badges for his employees, indicating the new or follow-on contract number. The security policies described in this clause apply to any contractor employee on base in connection with any contract with TACOM-Warren.

3. At the discretion of the Detroit Arsenal Commander, any individual known to have a criminal background involving violence may be denied access to the Detroit Arsenal. Fingerprinting of employees and any other procedure deemed necessary for the security of Detroit Arsenal may be required at the discretion of Detroit Arsenal Public Safety Office.

4. Any contractor employee attending meetings with Government employees within or outside the Detroit Arsenal boundaries, shall, at the beginning of the meeting, announce that he/she is a contractor employee. He/she must state the Contractor's name and address, and state the name of all other companies or persons that (a) currently employ him, or (b) that he currently represents. In addition, for the duration of the meetings, the contractor employee shall wear a second visible badge that displays the contractor's company name.

5. If a visiting contractor is working on a classified contract, his/her visit request, with security clearance information, must be approved by the Detroit Arsenal Industrial Security Specialist and be held on file the Detroit Arsenal Intelligence and Security Division. Government employees hosting meetings will verify that the contractor employees security clearance information is on file in the Detroit Arsenal Intelligence and Security Division prior to contractor access to classified information.

6. All contractor employees working on the U.S. Army installation, Detroit Arsenal, in the State of Michigan, in connection with this contract, shall conform to all applicable federal or state laws, and published rules and regulations of the Departments of Defense and Army. Also, they must comply with any existing applicable regulations promulgated by Detroit Arsenal. Additionally, all contractor employees working on classified contracts shall comply with the requirements of the National Industrial Security Program (NISPOM) and Army Regulation 380-5, Department of the Army Information Security Program.

7. Each contractor employee working at the Detroit Arsenal property under this contract shall sign a Non-disclosure Agreement on their company's letterhead prior to commencing work under the contract or obtaining the badges permitting access to the property. There will be one Non-disclosure Agreement for each employee. The Non-disclosure Agreement shall be in the format indicated below. A copy of the agreement will be made a part of the contract file.

FORMAT FOR
NON-DISCLOSURE AGREEMENT
    I, _____, an employee of _____, a
Contractor providing support services/supplies to Detroit Arsenal or its tenants (hereinafter Detroit Arsenal), and likely to have access to nonpublic information (hereinafter RECIPIENT), under contract number _____, agree to and promise the following:
    WHEREAS RECEIPIENT is engaged in delivery support services to Detroit Arsenal under contract; and
    WHEREAS, It is the intention of Detroit Arsenal to protect and prevent unauthorized access to and disclosure of nonpublic information to anyone other than employees of the United States Government who have a need to know; and,   WH
EREAS, Detroit Arsenal acknowledges that RECIPIENT will from time to time have or require access to such nonpublic information in the course of delivering the contract services; and,
    WHEREAS, RECIPIENT may be given or other have access to nonpublic information while providing such services; and,

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WHEREAS, "nonpublic information" includes, but is not limited to such information as:

Proprietary information (e.g., information submitted by a contractor marked as proprietary. However please note: THIS NON-DISCLOSURE STATEMENT IS NOT SUFFICIENT TO ALLOW CONTRACTORS ACCESS TO ANOTHER CONTRACTORS PROPRIETARY INFORMATION. FOR THAT, A SEPARATE CONTRACTOR TO CONTRACTOR AGREEMENT IS REQUIRED.);

Advanced procurement information (e.g., future requirements, statements of work, and acquisition strategies);

Source selection information (SSI) (e.g., bids before made public, source selection plans, and rankings of proposals)(PLEASE NOTE: THIS AGREEMENT ALONE DOES NOT AUTHORIZE ACCESS TO SSI--ONLY PCO OR SOURCE SELECTION AUTHORITY CAN AUTHORIZE SUCH ACCESS.);

Trade secrets and other confidential business information (e.g., confidential business information submitted by the contractor);

Attorney work product;

Information protected by the Privacy Act (e.g., social security numbers, home addresses and telephone numbers); and

Other sensitive information that would not be released by Detroit Arsenal under the Freedom of Information Act (e.g., program, planning and budgeting system information);

NOW THEREFORE, RECIPIENT agrees to and promises as follows:

RECIPIENT shall not seek access to nonpublic information beyond what is required for the performance of the support services contract;

RECIPIENT will ensure that his or her status as a contractor employee is known when seeking access to and receiving such nonpublic information of Government employees;

As to any nonpublic information to which RECIPIENT has or is given access, RECIPIENT shall not use or disclose such information for any purpose other than providing the contract support services, and will not use or disclose the information to any unauthorized person or entity for personal, commercial, or any unauthorized purposes; and

If RECIPIENT becomes aware of any improper release or disclosure of such nonpublic information, RECIPIENT will advise the contracting officer in writing as soon as possible.

The RECIPIENT agrees to return any nonpublic information given to him or her pursuant to this agreement, including any transcriptions by RECIPIENT of nonpublic information to which RECIPIENT was given access, if not already destroyed, when RECIPIENT no longer performs work under the contract.

RECIPIENT understands that any unauthorized use, release or disclosure of nonpublic information in violation of this Agreement will subject the RECIPIENT and the RECIPIENT's employer to administrative, civil or criminal remedies as may be authorized by law.

RECIPIENT: _____ (signature)

PRINTED NAME: _____

TITLE: _____

EMPLOYER: _____

[End of clause]

I-93　　52.215-4406　　AUTOMATED INFORMATION SYSTEM SECURITY REQUIREMENT　　　　　NOV/2002

1. The Contractor must comply with all Department of the Army Directives, AR 380-19, AMC Suppl 1 to AR 380-19 and Army Material Command (AMC) security directives, Corporate Information Office (CIO) and Directorate Intelligence Security Division, memorandums, and numbered messages. All new systems require accreditation and certification that connect to TACOM computer systems and must be approved by the CIO before connection is accepted. Personnel who require access to Sensitive But Unclassified (SBU) defense information because of their duties in accessing Automation Information System (AIS) equipment or software will be appropriately investigated based on the sensitivity of the Automated Data Processing (ADP) position held. ADP sensitivity designations are ADP-1 for Critical-sensitive, ADP-II for Noncritical-sensitive and ADP III for Non-sensitive. Before contractor employee can obtain access to ADP hardware/software, an investigation must be completed.

2. If the contractor needs remote access to TACOM-Warren ADP systems and SBU information will be accessed during the contract, the contractor must use a National Security Agency approved method to encrypt the information if it is sent/received outside this Command. The use of a commercial Internet Service Provider for receipt of government information is prohibited. A Terminal Server Access Controller System (TSACS) Account must be established and used for government email and installed on a government machine.

3. The security measures below are consistent with Department of the Army security policies and directives and are required to protect the TACOM-Wide Network (TWNET). The goal is to ensure the confidentiality, integrity, and availability of Department of the Army automation assets and software and to reduce cracker, hacker, and malicious code attacks to the maximum extent possible.

4. Contractor personnel, who require access to SBU defense information because of their duties with an automated information system, will be appropriately investigated based on the sensitivity of the ADP position held. ADP sensitivity designations are ADP-I for Critical-sensitive, ADP-II for Noncritical-sensitive and ADP-III for Non-sensitive. Before assumption of duties, an SF85P or SF86 must be completed and sent by your Facility Security Officer (FSO) directly to Defense Security Service (DSS) for each individual requiring

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access. The contractor is responsible for providing the Electronic Personnel Security Questionnaire (EPSQ) receipt to AMSTA-CM-XSC, datafax (586) 574-6362. A copy of the SF85P or SF86 can be mailed to: Commander, U.S. Army Tank-automotive and Armaments Command, 6501 E. 11 Mile Road, ATTN: AMSTA-CM-XSC, Warren, MI 48397-5000. The Contractor is responsible for submitting their required security investigations to the Defense Investigative Service Clearance Office (DISCO). Upon request, the contractor will provide security investigation data to Directorate, Intelligence Security Division in order that personnel can be incorporated into the TACOM-Warren Security Clearance Roster.

5. Contractor personnel assigned to ADP II positions must complete a National Agency Check (NAC) or a National Agency Check with Inquiries (NACI) and a SF 86 and FD 258 (fingerprint card). These documents must be completed before access can be granted to a Department of Army automation network. Each contractor employee must submit a SF86 in the EPSQ format. The EPSQ software can be found at www.dss.mil/epsq/index.htm. Note: Local police departments will normally take fingerprints for a small fee. An alternative is to make an appointment with the nearest DoD facility that has a Security office trained and equipped to take fingerprints.

6. Each contractor employee who has access to TACOM computers must read and sign a copy of the Automated Information System Annual Security Briefing which can be obtained from your TACOM-Warren Information Assurance Security Officer (IASO).

7. The contractor will be required to submit application forms for network access.

8. TACOM is not responsible for any commercial or proprietary information that contractor employees may divulge to competing contractors. It is the contractors responsibility to notify TACOM when their employee(s) with access to the TACOM TWNET terminate employment. It is TACOMs policy to delete the contractor employees TWNET account at the end of their employment with a contractor. However, TACOM is not responsible and has no employment relationship with contractor employees and will not be responsible for the actions of contractor employees who divulge commercial or proprietary information to others.

9. A remote connection to TACOMs systems requires an Accreditation and Certification process for each AIS. The accreditation request must be reviewed by the Information Assurance Manager (IAM) and then forwarded to the Designated Approving Authority (DAA) for final approval before connection is accepted.

10. In accordance with Department of the Army Directives, AR 380-19, and AMC Suppl 1 to AR 380-19, the contractor must have malicious code protection on the computers that are connected to the TWNET. Malicious code protection must be monitored daily for updates and immediate implementation. TACOM-Warren uses the most current version of Norton Anti-virus software and McAfee Anti-virus software. The contractor must report any malicious code problems or thefts of equipment, software, or code to the TACOM-Warren IASO and IAM.

11. The contractor must:

(1) Secure the computer equipment and information associated with this contract in a locked office or container, and locked building.
        Ensure only personnel designated to work on this contract have access to the computer equipment and information.
        (3) Ensure that Foreign Nationals do not have access to this equipment and information.

(4) Identify the physical security measures (i.e. locked office, locked buildings, building alarms etc.) in place to protect the contracts associated equipment and information at the contractor location. A short description and facility diagram shall be included.

12. Upon completion of the project/contract, the contractor will notify the TACOM-Warren IASO.
___

[End of clause]

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SECTION J - LIST OF ATTACHMENTS

List of Addenda	Title	Date	Number of Pages	Transmitted By
Exhibit A	CONTRACT DATA REQUIREMENTS LIST (CDRL, DD FORM 1423)	08-JUN-2004	010	

be accessible offline.

    (4) Other electronic formats. Before preparing your report in any other electronic format, please e-mail the COR, with an e-mail copy-furnished to amsta-idq@tacom.army.mil, to obtain a decision as to the format's acceptability. This e-mail must be received by the COR not later than ten calendar days before the draft report's due date. All alternate methods must be at no cost to the Government.

NOTE (Hyperlinks): Documents (submitted using any of the above formats) must not contain active links (hyperlinks) to any other documents that are not contained in the report. This includes links to live Internet web site or web pages. All linked information must be contained within your electronic offer and be accessible offline.

NOTE (Macros): The virus scanning software used by our e-mail systems cannot always distinguish a macro from a virus. Therefore, sending a macro embedded in an e-mail message or an e-mail attachment may cause the e-mail report to be quarantined.

NOTE (Password Protection): Files may be read-only, password protected.

   d. Acceptable media: The Contractor shall submit reports via e-mail. If e-mail is not workable, other acceptable media include 100 or 250 Megabyte Zip*-disk, 3 1/2 inch floppy disk, or 650 megabyte CD ROM. Identify the software application and version used to create each file submitted.

    (1) E-MAIL. Maximum size of each e-mail message shall be three and one-half (3.5) megabytes. Use the file compression described in the NOTE in paragraph 16d(4) above. You may use multiple e-mail messages if necessary, however, you must annotate the subject lines in this manner: "Message 1 of 3, 2 of 3, 3 of 3."

    (2) 100 or 250 MEGABYTE ZIP*-DISK, 3 1/2 INCH DISK, OR 650 MEGABYTE CD ROM via U.S. Mail or other carrier. The Contractor shall label all submitted disks with the Contract number, the Contractor's name and address, and a contact's phone number. Exterior mailing envelopes containing disks must be addressed to the following address:

      Mr. Ken Deylami (AMSRD-TAR-N), MS 272
      U.S. Army Tank-automotive and Armaments Command (TACOM)
      6501 East 11 Mile Road
      Warren, MI 48397-5000

NOTE: Please select only one medium by which to transmit each report. For instance, do no submit a report via e-mail and 100 megabyte Zip*-disk.

* Registered Trademark

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1.  DATA ITEM NO..........: A002
2.  TITLE OF DATA ITEM....: Scientific and Technical Reports
3.  SUBTITLE..............: Semi-Annual Reports

4.  AUTHORITY.............: DI-MISC-80711A(T)
5.  CONTRACT REFERENCES...: Scope of Work (SOW), Sections C.6.2
6.  REQUIRING OFFICE......: AMSRD-TAR-N        9.  DIST. STATEMENT REQUIRED:        12.  DATE OF FIRST SUB:
                                                                                        See Block 16
7.  DD250 REQ.............: DD                10.  FREQUENCY:  See Block 16          13.  DATE OF SUBS. SUB:
8.  APP CODE..............:                   11.  AS OF DATE:                            See Block 16
```

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14.  DISTRIBUTION          A.  ADDRESSES                          B.  COPIES:     DRAFT          FINAL

Ken Deylami, Contracting Officer's Representative (COR), E-mail, DeylamiK@tacom.army.mil      1              1
Robert Beardslee, Contract Specialist, E-mail:  beardslr@tacom.army.mil                                     1
Ramsey Baerga, Administrative Contracting Officer, E-mail:  baergar@onr.navy.mil                            1

                                                             15.  TOTAL:          1              1 *
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* In distributing the electronic report, according to the schedule in Block 16 below, the Contractor
  shall deliver one (1) copy to the Government, sent to Mr. Deylami's, Mr. Beardslee's, and Mr. Baerga's
  e-mail addresses.

16. REMARKS:

    a. Basic Period: The Contractor shall deliver one (1) draft "Scientific and Technical Report"
by six (6) months, twelve (12) months, eighteen (18) months, and twenty-four (24) months after contract
award. The COR shall review the draft report and return it to the Contractor within one (1) week of
receipt with comments. The Contractor shall submit one (1) final semi-annual "Scientific and Technical
Report" within two (2) weeks after receipt of draft comments.

    b. Complete the reports IAW DID DI-MISC-80711A(T), "Scientific and Technical Reports." See the
data item description (DI-MISC-80711A), at the internet address below, for instructions on completing
the required report. Note Tailoring: Delete paragraph 10.2 from DID DI-MISC-80711A.

                    http://assist.daps.dla.mil/docimages/0002/27/88/80711A.PD4

Besides the information required by DID DI-MISC-80711A(T), the reports shall describe the development of
the methodologies being implemented in the software tool suite, and the development of the software tool
suite itself. Reports shall also address informational sources and references accessed, assumptions and
simplifications made, sensitivity analysis and stress test results, demonstration and validation status,
and projected improvements to the software tool suite.

    c. The COR is responsible for accepting or rejecting the draft and final reports.

    d. Prepare the reports in the Contractor's format. Submit the reports using any of the following
electronic formats:

        (1) Files readable using these Office XP or Microsoft* 97 Office Products (TACOM can currently read
OFFICE 97* and lower): Word, Excel, PowerPoint, or Access. Spreadsheets must be sent in a file format that includes
all formulae, macro and format information. Print image is not acceptable. Executable files are unacceptable.

        (2) Files in Adobe PDF (Portable Document Format). Scanners should be set to 200 dots per inch.

        (3) Files in HTML (Hypertext Markup Language). HTML documents must not contain active links to
live Internet sites or pages. All linked information must be contained within your electronic report, and
be accessible offline.

        (4) Other electronic formats. Before preparing your report in any other electronic format, please
e-mail the COR, with an e-mail copy-furnished to amsta-idq@tacom.army.mil, to obtain a decision as to the
format's acceptability. This e-mail must be received by the COR not later than ten calendar days before the
draft report's due date. All alternate methods must be at no cost to the Government.

NOTE (Hyperlinks): Documents (submitted using any of the above formats) must not contain active links (hyperlinks)
to any other documents that are not contained in the report. This includes links to live Internet web site or
web pages. All linked information must be contained within your electronic offer and be accessible offline.

NOTE (Macros): The virus scanning software used by our e-mail systems cannot always distinguish a macro from a

virus. Therefore, sending a macro embedded in an e-mail message or an e-mail attachment may cause the e-mail report to be quarantined.

NOTE (Password Protection): Files may be read-only, password protected.

    e. Acceptable media: The Contractor shall submit reports via e-mail. If e-mail is not workable, other acceptable media include 100 or 250 Megabyte Zip*-disk, 3 1/2 inch floppy disk, or 650 megabyte CD ROM. Identify the software application and version used to create each file submitted.

      (1) E-MAIL. Maximum size of each e-mail message shall be three and one-half (3.5) megabytes. Use the file compression described in the NOTE in paragraph 16d(4) above. You may use multiple e-mail messages if necessary, however, you must annotate the subject lines in this manner: "Message 1 of 3, 2 of 3, 3 of 3."

      (2) 100 or 250 MEGABYTE ZIP*-DISK, 3 1/2 INCH DISK, OR 650 MEGABYTE CD ROM via U.S. Mail or other carrier. The Contractor shall label all submitted disks with the Contract number, the Contractor's name and address, and a contact's phone number. Exterior mailing envelopes containing disks must be addressed to the following address:

        Mr. Ken Deylami (AMSRD-TAR-N), MS 272
        U.S. Army Tank-automotive and Armaments Command (TACOM)
        6501 East 11 Mile Road
        Warren, MI 48397-5000

NOTE: Please select only one medium by which to transmit each report. For instance, do no submit a report via e-mail and 100 megabyte Zip*-disk.

* Registered Trademark

```
1.  DATA ITEM NO..........: A003
2.  TITLE OF DATA ITEM....: Scientific and Technical Report
3.  SUBTITLE..............: Final Report

4.  AUTHORITY.............: DI-MISC-80711A(T)
5.  CONTRACT REFERENCES...: Scope of Work (SOW), Sections C.6.3
6.  REQUIRING OFFICE......: AMSRD-TAR-N        9.  DIST. STATEMENT REQUIRED:        12.  DATE OF FIRST SUB:
                                                                                         See Block 16
7.  DD250 REQ.............: DD               10.  FREQUENCY:  See Block 16            13.  DATE OF SUBS. SUB:
8.  APP CODE..............:                  11.  AS OF DATE:                              See Block 16
```

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14.  DISTRIBUTION        A.  ADDRESSES                          B.  COPIES:    DRAFT        FINAL
```

Ken Deylami, Contracting Officer's Representative (COR), E-mail, DeylamiK@tacom.army.mil   1   1

Robert Beardslee, Contract Specialist, E-mail: beardslr@tacom.army.mil   1

Ramsey Baerga, Administrative Contracting Officer, E-mail: baergar@onr.navy.mil   1

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                                                         15.  TOTAL:          1            1 *
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* In distributing the electronic report, according to the schedule in Block 16 below, the Contractor
  shall deliver one (1) copy to the Government, sent to Mr. Deylami's, Mr. Beardslee's, and Mr. Baerga's
  e-mail addresses.

16. REMARKS:

    a. Basic Period: The Contractor shall deliver one (1) draft "Scientific and Technical Report,"
thirty-one (31) months and one (1) week after contract award. The draft report shall include a completed
Standard Form (SF) 298 (Report Documentation Page) as the report's cover sheet. The COR shall review
the draft report and return it to the Contractor within one (1) week of receipt with comments. The
Contractor shall submit one (1) final "Scientific and Technical Report" (with the completed SF 298)
within two (2) weeks after receipt of draft comments.

    b. Complete the reports IAW DID DI-MISC-80711A(T), "Scientific and Technical Reports." See the data
item description (DI-MISC-80711A), at the internet address below, for instructions on completing the
required report. Note Tailoring: Delete paragraph 10.2 from DID DI-MISC-80711A.

                http://assist.daps.dla.mil/docimages/0002/27/88/80711A.PD4

Besides the information required by DID DI-MISC-80711A(T), the reports shall describe the development,
demonstration, and validation of the software tool at the end of the contract performance period. The
reports shall also include copies of all analytical and experimentally-based test data used for the
validation portion of this contract.

    c. The COR is responsible for accepting or rejecting the draft and final reports, and for
submitting the approved final report to the Defense Technical Information Center (DTIC), in Ft. Belvoir, VA.

You may download the SF 298 form, including instructions for completing the form, at the following
internet address:

             http://www.dtic.mil/dtic/submitting/how_submit.html

      For each unclassified report, the Contractor shall fill in Block 12a (Distribution/Availability
Statement) of the SF 298 with one of the following statements:

      (a) Approved for public release; distribution unlimited

      (b) Distribution authorized to U.S. Government Agencies only; contains proprietary information

      Note: After reviewing the Contractor's entry in Block 12a, TACOM has final responsibility for
assigning a distribution statement.

      Note: Be sure to mark the Scientific and Technical Report with the appropriate legend, per the
Section I clause entitled, "Rights in Technical Data - Noncommercial Items" (DFARS 252.227-7013).

      Block 13 (Abstract). The abstract must identify the purpose of the work and briefly describe the
work carried out, the finding or results, and the potential applications of the effort. Since the
Department of Defense (DOD) will be publishing the abstract, it must not contain any proprietary or

classified data.

    d. Prepare the reports in the Contractor's format. Submit the reports using any of the following electronic formats:

      (1) Files readable using these Office XP or Microsoft* 97 Office Products (TACOM can currently read OFFICE 97* and lower): Word, Excel, PowerPoint, or Access. Spreadsheets must be sent in a file format that includes all formulae, macro and format information. Print image is not acceptable. Executable files are unacceptable.

      (2) Files in Adobe PDF (Portable Document Format). Scanners should be set to 200 dots per inch.

      (3) Files in HTML (Hypertext Markup Language). HTML documents must not contain active links to live Internet sites or pages. All linked information must be contained within your electronic report, and be accessible offline.

      (4) Other electronic formats. Before preparing your report in any other electronic format, please e-mail the COR, with an e-mail copy-furnished to amsta-idq@tacom.army.mil, to obtain a decision as to the format's acceptability. This e-mail must be received by the COR not later than ten calendar days before the draft report's due date. All alternate methods must be at no cost to the Government.

NOTE (Hyperlinks): Documents (submitted using any of the above formats) must not contain active links (hyperlinks) to any other documents that are not contained in the report. This includes links to live Internet web site or web pages. All linked information must be contained within your electronic offer and be accessible offline.

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NOTE (Password Protection): Files may be read-only, password protected.

    e. Acceptable media: The Contractor shall submit reports via e-mail. If e-mail is not workable, other acceptable media include 100 or 250 Megabyte Zip*-disk, 3 1/2 inch floppy disk, or 650 megabyte CD ROM. Identify the software application and version used to create each file submitted.

      (1) E-MAIL. Maximum size of each e-mail message shall be three and one-half (3.5) megabytes. Use the file compression described in the NOTE in paragraph 16d(4) above. You may use multiple e-mail messages if necessary, however, you must annotate the subject lines in this manner: "Message 1 of 3, 2 of 3, 3 of 3."

      (2) 100 or 250 MEGABYTE ZIP*-DISK, 3 1/2 INCH DISK, OR 650 MEGABYTE CD ROM via U.S. Mail or other carrier. The Contractor shall label all submitted disks with the Contract number, the Contractor's name and address, and a contact's phone number. Exterior mailing envelopes containing disks must be addressed to the following address:

          Mr. Ken Deylami (AMSRD-TAR-N), MS 272
          U.S. Army Tank-automotive and Armaments Command (TACOM)
          6501 East 11 Mile Road
          Warren, MI 48397-5000

NOTE: Please select only one medium by which to transmit each report. For instance, do no submit a report via e-mail and 100 megabyte Zip*-disk.

* Registered Trademark

1. DATA ITEM NO..........: A004
2. TITLE OF DATA ITEM....: Computer Software Product End Items
3. SUBTITLE..............: CMTS / SGSA Software

4. AUTHORITY.............: DI-MCCR-80700
5. CONTRACT REFERENCES...: Scope of Work (SOW), Sections C.6.3
6. REQUIRING OFFICE......: AMSRD-TAR-N   9. DIST. STATEMENT REQUIRED: 12. DATE OF FIRST SUB:
                                                                                             See Block 16
7. DD250 REQ.............: DD   10. FREQUENCY: See Block 16   13. DATE OF SUBS. SUB:
8. APP CODE..............:   11. AS OF DATE: See Block 16

14. DISTRIBUTION   A. ADDRESSES   B. COPIES: DRAFT   FINAL

Ken Deylami, Contracting Officer's Representative (COR), E-mail, DeylamiK@tacom.army.mil   1

                                                             15. TOTAL: 1

16. REMARKS:

    a. The Contractor shall deliver all software products, documentation (including instructions
for executing, maintaining, and trouble-shooting the software), and models developed for demonstration
and validation. All software products, including help system and documentation, shall be provided on
appropriate storage media (CD-ROM and write-protected zip disks) by thirty-two (32) months after
contract award. The disks shall include both source code and a self-installing set-up program.

    b. The COR is responsible for accepting or rejecting the delivered software products, documentation,
and source code. See DID DI-MCCR-80700, at the internet address below:

                    http://assist.daps.dla.mil/docimages/0001/48/72/W0285W.PD8

    c. Prepare the reports in the Contractor's format. Submit the reports using any of the following
electronic formats:

        (1) Files readable using these Office XP or Microsoft* 97 Office Products (TACOM can currently read
OFFICE 97* and lower): Word, Excel, PowerPoint, or Access. Spreadsheets must be sent in a file format that includes
all formulae, macro and format information. Print image is not acceptable. Executable files are unacceptable.

        (2) Files in Adobe PDF (Portable Document Format). Scanners should be set to 200 dots per inch.

        (3) Files in HTML (Hypertext Markup Language). HTML documents must not contain active links to
live Internet sites or pages. All linked information must be contained within your electronic report, and
be accessible offline.

        (4) Other electronic formats. Before preparing your report in any other electronic format, please
e-mail the COR, with an e-mail copy-furnished to amsta-idq@tacom.army.mil, to obtain a decision as to the
format's acceptability. This e-mail must be received by the COR not later than ten calendar days before the
draft report's due date. All alternate methods must be at no cost to the Government.

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virus. Therefore, sending a macro embedded in an e-mail message or an e-mail attachment may cause the e-mail
report to be quarantined.

NOTE (Password Protection): Files may be read-only, password protected.

    d. Acceptable media: The Contractor shall submit reports via e-mail. If e-mail is not workable, other
acceptable media include 100 or 250 Megabyte Zip*-disk, 3 1/2 inch floppy disk, or 650 megabyte CD ROM. Identify
the software application and version used to create each file submitted.

        (1) E-MAIL. Maximum size of each e-mail message shall be three and one-half (3.5) megabytes. Use the
file compression described in the NOTE in paragraph 16d(4) above. You may use multiple e-mail messages if
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        (2) 100 or 250 MEGABYTE ZIP*-DISK, 3 1/2 INCH DISK, OR 650 MEGABYTE CD ROM via U.S. Mail or other

carrier. The Contractor shall label all submitted disks with the Contract number, the Contractor's name and address, and a contact's phone number. Exterior mailing envelopes containing disks must be addressed to the following address:

      Mr. Ken Deylami (AMSRD-TAR-N), MS 272
      U.S. Army Tank-automotive and Armaments Command (TACOM)
      6501 East 11 Mile Road
      Warren, MI 48397-5000

NOTE: Please select only one medium by which to transmit each report. For instance, do no submit a report via e-mail and 100 megabyte Zip*-disk.

* Registered Trademark

1. DATA ITEM NO..........: A005
2. TITLE OF DATA ITEM....: Presentation Materials
3. SUBTITLE..............: CMTS / SGSA Training

4. AUTHORITY.............: DI-ADMN-81373(T)
5. CONTRACT REFERENCES...: Scope of Work (SOW), Sections C.6.4
6. REQUIRING OFFICE......: AMSTA-TR-R   9. DIST. STATEMENT REQUIRED: 12. DATE OF FIRST SUB:
                                                                                 See Block 16
7. DD250 REQ.............: DD   10. FREQUENCY: See Block 16   13. DATE OF SUBS. SUB:
8. APP CODE..............:   11. AS OF DATE: See Block 16

14. DISTRIBUTION   A. ADDRESSES   B. COPIES: DRAFT   FINAL

Ken Deylami, Contracting Officer's Representative (COR), E-mail: DeylamiK@tacom.army.mil   1

                                                     15. TOTAL: 1
16. REMARKS:

     a. See DID DI-ADMN-81373, at the following internet address:

                    http://assist.daps.dla.mil/docimages/0001/58/88/81373.PD2

        Note Tailoring: Add the following requirements to DID DI-ADMN-81373:

        10.3 Requirement. The Contractor shall deliver a one to two (1-2) consecutive day
short course training seminar at TACOM, Warren, MI, for six (6) people, on the use of the
CMTS and SGSA software between thirty (30) and thirty-two (32) months after contract
award. The Contractor shall coordinate the training arrangments with the COR, and shall
provide a seminar outline and copies of training materials, for six (6) people, to the COR
one (1) month prior to the scheduled seminar date. The training seminar must include an
overview of the mathematical foundation of the CMTS, with a thorough discussion of program
assumption, capabilities, and limitations, instructions on general use of the software tools,
and an overview of template development for incorporating future technology upgrades.

     b. The COR is responsible for accepting or rejecting the training materials.

     c. Prepare the training materials in the Contractor's format. Submit the training materials using any
of the following electronic formats:

        (1) Files readable using these Office XP or Microsoft* 97 Office Products (TACOM can currently read
OFFICE 97* and lower): Word, Excel, PowerPoint, or Access. Spreadsheets must be sent in a file format that includes
all formulae, macro and format information. Print image is not acceptable. Executable files are unacceptable.

        (2) Files in Adobe PDF (Portable Document Format). Scanners should be set to 200 dots per inch.

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report to be quarantined.

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acceptable media include 100 or 250 Megabyte Zip*-disk, 3 1/2 inch floppy disk, or 650 megabyte CD ROM. Identify

the software application and version used to create each file submitted.

       (1) E-MAIL. Maximum size of each e-mail message shall be three and one-half (3.5) megabytes. Use the file compression described in the NOTE in paragraph 16d(4) above. You may use multiple e-mail messages if necessary, however, you must annotate the subject lines in this manner: "Message 1 of 3, 2 of 3, 3 of 3."

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NOTE: Please select only one medium by which to transmit each report. For instance, do no submit a report via e-mail and 100 megabyte Zip*-disk.

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